

NOBEL SERIES

# VARIABLE SPEED DRIVE ROTARY SCREW AIR COMPRESSORS 7.5KW - 37KW



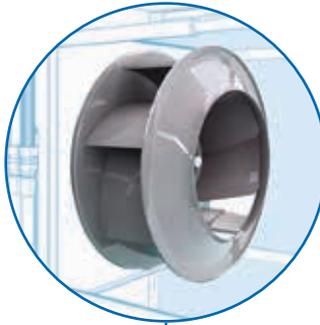
THE EXPERTISE YOU WANT, THE SUPPORT YOU NEED, THE VALUE YOU DEMAND

Pre and post sales technical and spare parts support just a phone call away,  
that's the Pilot Air Value Guarantee\*.



### DNair2 controller

Simple and intuitive, sophisticated functionality and flexible programming.



### Radial ventilation

Combines the highest cooling efficiency with reduced energy consumption and exceptionally low noise levels.



### Inverter

The latest generation inverter drive, allows for a controlled use of energy minimising CO<sub>2</sub> output and lowering energy costs.



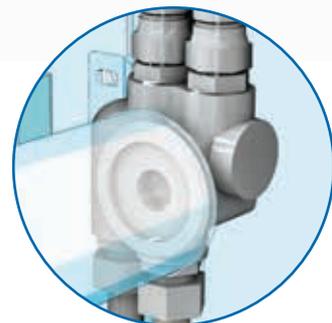
### High efficiency with maximum energy savings

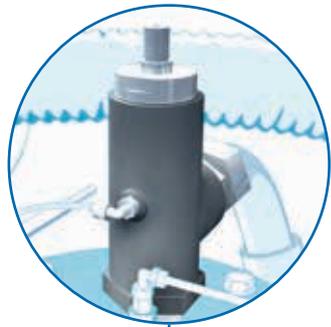
Utilisation of new generation high efficiency motors, drive and inverter technology.



### Simplified maintenance

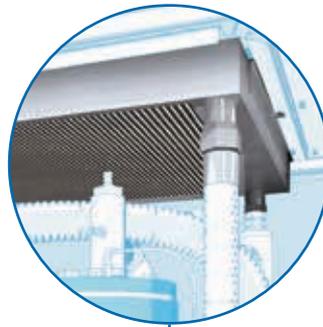
All service access has been made simple and extremely convenient reducing down time and service costs.





### Minimum pressure valve

Designed to guarantee low pressure losses and reduced energy consumption.



### Heat exchangers

Generously dimensioned coolers combining high efficiency heat transfer and low pressure loss.



### Integrated condensate drain

Available in standard configuration in models from 11 to 37 kW controlled by the DNAir2.



### Intake regulator

Custom designed, guaranteeing high efficiency, reduced noise levels and the highest reliability.

### Transmission

Original design offering the highest efficiency with ultimate reliability in both the direct and gear adopted versions.



### Thermostatic valve

Controls the coolant flow avoiding sudden temperature changes and reduces the risk of condensation being formed.

# OPTIMAL CONTROL AND ADJUSTMENT

## Innovative DNAir2 controller

The innovative DNAir2 controller is utilised on all NOBEL models. Specially designed for simple and flexible programming, it adjusts and controls the operation of the compressor, guaranteeing its efficiency and safety. The user-friendly interface consists of a large backlit LCD display, with simple and clearly understood icons. All commands and functions are accessed easily using multilingual drop-down menus.



The main screen display indicates:

- operating pressures;
- oil temperature;
- compressor status (stand-by, un-loaded, loaded);
- fan status (off/on);
- date and time;
- remaining hours for maintenance;
- flow rate supplied percentage (for machines with inverter)

## SMS Device (Service Management System)

SMS is an innovative new device that allows operators and service centres the possibility to remotely control and perform preventive maintenance checks on screw compressors equipped with a DNAir2 controller. These facilities are provided when the device is configured for local internet network via Wi-Fi or Ethernet connectivity. The SMS system allows for e-mails to be sent automatically in the case of a fault or other anomalies and/or for automatic regular e-mails (hourly, daily or weekly) to be sent to monitor the proper operation of the compressor and to define the remaining hours for service. Other Information and settings can be accessed remotely aimed at safeguarding the reliability of the system.



## Preventive and targeted maintenance

- automatic sending of e-mails in case of alarms,
- possibility of sending e-mails which notify the compressor status and settings at pre-set intervals (hourly, daily or weekly).

## Remote control of the compressor

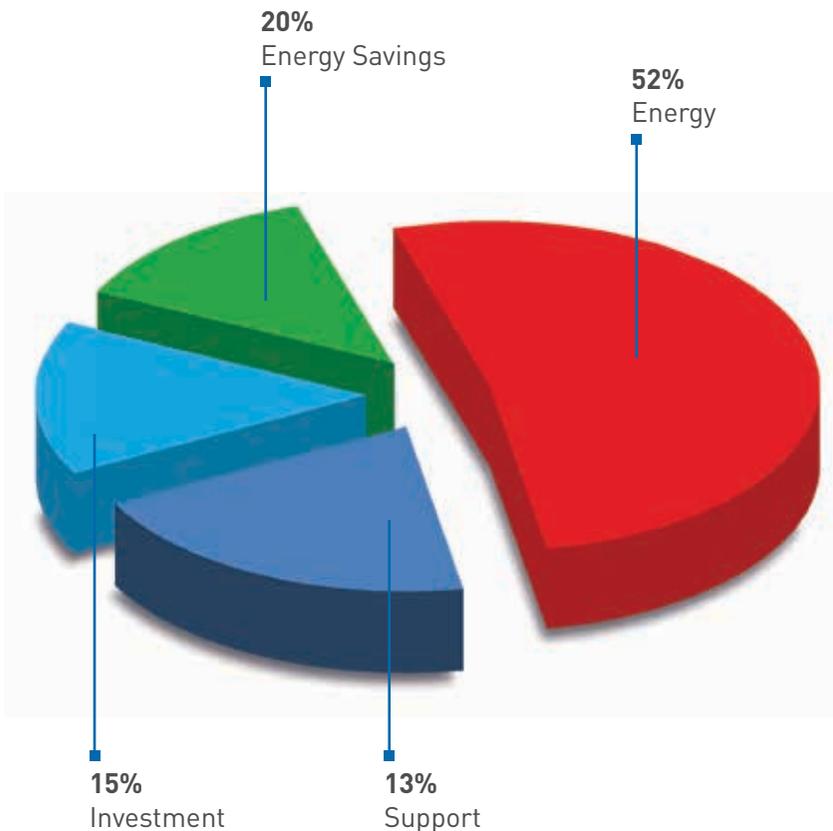
- access to the various menu levels (user, service),
- compressor online status check,
- on/off control,
- no additional software is required



# NOBEL DV - MAXIMUM ENERGY EFFICIENCY AND SAVINGS

## Variable speed with inverter drive

The reduction of energy consumption and the protection of our precious environmental resources is one of the major global challenges in our times. Thanks to decades of experience in the industry, Pilot Air are recognised as a technological leader in the field of variable speed compressors, capable of guaranteeing high performance levels and efficient energy solutions. The optimised frequency converter provides the capability to dynamically regulate the frequency, voltage and current values supplied to the main electric motor, constantly eliminating useless power drops, continuously adjusting the compressed air generation in line with the amount of compressed air that is required.



The benefits of using the NOBEL DV with inverter are remarkable:

- continuous control and regulation of the volume of air generated by varying the speed of the electric motor from 30% up to 100% of the motors full speed;
- the compressed air generated is therefore constantly proportional to the requirements of the system;
- the pressure control inside the system is controlled accurately and precisely, in a range between 6 and 13 bar, depending on the chosen compressor model.

### MANAGEMENT COSTS

The graph shows the considerable energy savings achieved with a variable speed compressor in a typical installation.

# THE IMPORTANCE OF ORIGINAL SPARE PARTS...

Using certified original spare parts reduces management costs and guarantees the efficiency, reliability and longevity of the compressor at the same time providing maximum operator safety and security.

## ... AND SPECIAL LUBRICANTS

Our synthetic based lubricants have been specially designed for use in our screw compressors and have been specially developed in cooperation with a leading manufacturer of Industrial lubricants. Available in various packaging formats and capacities and in multiple or 'bulk' packages. Synthetic lubricants ensures low operating temperatures, efficient water separation, reduces friction and energy consumption, extends maintenance intervals, ensures excellent lubrication of the bearings, guaranteeing maximum all round protection.

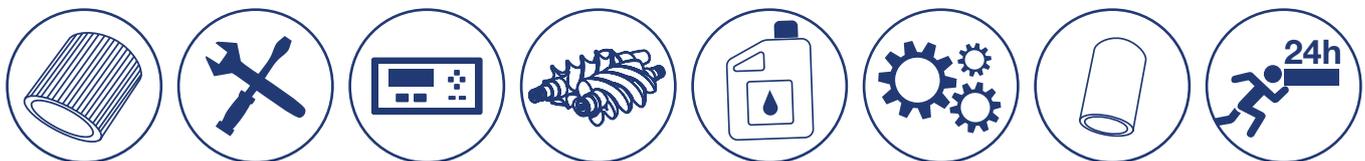


## NOBEL SPECIFICATIONS

Model	Free Air Delivery @ 8 Bar		Free Air Delivery @ 10 Bar		Motor Size		Noise Level	Dimensions	Weight
	L/S	CFM	L/S	CFM	KW	HP	d(B)A	L x W x H (mm)	kg
<b>NOBEL 7.5VS</b>	9.9-21.7	21-46	8.5-18.4	18-39	7.5	10	63	880x700x850	180
<b>NOBEL 11VS</b>	11.3-28.3	24-60	10.4-26.4	22-56	11	15	67	1100x750x1000	250
<b>NOBEL 15VS</b>	16.0-41.5	34-88	14.1-34.9	30-74	15	20	68	1100x750x1000	250
<b>NOBEL 18.5VS</b>	17.9-51.5	38-109	15.5-43.4	33-92	18.5	25	62	1370x880x1360	615
<b>NOBEL 22VS</b>	19.3-59.9	41-127	19.3-50.0	41-106	22	30	64	1370x880x1360	650
<b>NOBEL 30VS</b>	33.0-80.7	70-171	26.9-71.7	57-152	30	40	68	1620x1020x1560	1000
<b>NOBEL 37VS</b>	44.8-109.9	95-233	28.7-90.1	61-191	37	50	70	1620x1020x1560	1090

- F.A.D. as per ISO1217 @ 7.5 - 9.5 Bar.
- Sound levels measure as per ISO 1217 Standards.
- Technical data conforms to +/- 5%. Pilot Air reserves the right to modification without notice for design and technical improvements.
- Optional operating pressures available at 10 and 13 BAR. Contact Pilot Air or your authorised agent for details.
- High standards ensure reliability and service life, however, a full coverage for 12 months and an additional 12 months on the air end gives complete confidence.
- For over 30 years Pilot Air Compressors has been meeting the needs of industry. Ask us about your requirements.

(\* Available during Pilot Air business hours of operation.)



QUALITY

PROTECTION

RELIABILITY

WARRANTY

EFFICIENCY

SAFETY

SERVICE



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### NSW - Service & Spare Parts

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### VIC

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### QLD

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P (07) 3279 1213 | F (07) 3375 7388

### SA (Statewide Agencies)

Grand Junction Rd, Mansfield Park, SA 5012  
P 1300 667 579 | F (08) 8347 4660

### WA (Air & Power)

7-9 Fisher St, Belmont, WA 6104  
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**Industrial and specialist air compressors, compressed air treatment products, compressed air distribution and piping systems.**